

IN THE CLAIMS:

Claims 1 – 4, 18 – 21, and 26 – 28 are cancelled. Claims 5, 22, 25, and 29 have been amended, as follows:

Claims 1 – 4 (cancelled)

5. (currently amended) ~~The method of claim 1, the method further including:~~

A method comprising:

transmitting a data stream of data packets having a known arrangement from a stream sender to a stream receiver via a network connection;

storing the data stream of data packets into both an original data buffer and a rendered data buffer;

analyzing the transmitted data packets received at the stream receiver and stored in the original data buffer to determine whether any missing known data packets in the known data packet arrangement were not received by the stream receiver;

requesting the stream sender to retransmit any missing known data packets not received at the stream receiver;

retransmitting any missing known data packets from the stream sender to the stream receiver;

comparing, at a device, the recreated data packets at the original data buffer to the data packets stored at the rendered data buffer to form a perceived quality of streaming data score, the recreated data packets including the any missing known data packets and the data stream of data packets; and

sending, from the device, the perceived quality of streaming data score to a third party for evaluation purposes.

6. (currently amended) The method of claim 5, wherein the rendered data buffer delays transmitting the stored data packets to the device until the missing known data packets are integrated into the data packets stored at the original data buffer.

7. (original) The method of claim 5, wherein the third party evaluates the perceived quality of streaming data score to track the Service Level Agreements at the stream receiver.

8. (currently amended) The method of claim 5, ~~wherein the device sends further including sending~~ the perceived quality of streaming data [[store]] ~~score is sent~~ to an analyzer and the analyzer evaluates the perceived quality of streaming data score to allocate sufficient bandwidth to provide acceptable quality of service to the stream receiver.

9. (previously presented) A system comprising:

a stream sender configured to transmit a data stream of data packets having a known arrangement via a network connection;

a stream receiver to receive the data stream of data packets, to copy the data stream of data packets to an original data buffer and a rendered data buffer, and to analyze the transmitted data stream of data packets received from the stream sender to determine whether any missing known data packets in the known data packet arrangement were not received by the stream receiver, the stream receiver also including a retransmit protocol configured to allow the stream receiver to request the

stream sender to retransmit any missing known data packets not received at the stream receiver and the stream sender to retransmit any missing known data packets to the stream receiver; and

a device configured to form a perceptual quality measurement score based on the original data buffer and the rendered data buffer.

10. (original) The system of claim 9, wherein the stream receiver is configured to analyze by comparing the received data packets with the known arrangement of data packets.

Claim 11 (cancelled).

12. (previously presented) The system of claim 9, wherein the original data buffer recreates the data packets transmitted from the stream sender, using a recreation process that includes at least one of the following:

- (1) reordering out of sequence data packets;
- (2) discarding duplicate data packets; or
- (3) synchronizing audio and video data packets.

13. (previously presented) The system of claim 9, wherein the device transmits the perceptual quality measurement score to an analyzer and the analyzer analyzes the perceptual quality measurement score to allocate sufficient bandwidth to provide acceptable quality of service to the stream receiver.

14. (previously presented) The system of claim 9, wherein the device transmits the perceptual quality measurement score to a third party evaluator and the third party evaluator analyzes the perceptual quality measurement score to track meeting Service Level Agreements at the stream receiver.

15. (previously presented) The system of claim 9, the system further includes a plurality of stream sender locations; a plurality of stream receiver locations; and a plurality of third party evaluators, wherein the plurality of stream sender locations and the plurality of stream receiver locations are configured to form the perceptual quality measurement score.

16. (original) The system of claim 15, wherein the plurality of stream sender locations and the plurality of stream receiver locations are configured for multicasting.

17. (original) The system of claim 15, wherein the plurality of stream sender locations and stream receiver locations are configured for conversation with any number of stream sender locations and stream receiver locations.

Claims 18 – 21 (cancelled).

22. (currently amended) ~~The medium of claim 18, wherein the program code, when executed causes:~~ A computer readable medium encoded with a program, which when executed, causes a computing device to:

receive a data stream of data packets having a known arrangement at a stream receiver from a stream sender via a network connection;

store the data stream of data packets into both an original data buffer and a rendered data buffer;

analyze the transmitted data packets received at the stream receiver and stored in the original data buffer to determine whether any missing known data packets in the known data packet arrangement were not transmitted to received by the stream receiver;

request the stream sender to retransmit any missing known data packets not received at the stream receiver;

comparing compare, at a device, the recreated data packets at the original data buffer to the data packets stored at the rendered data buffer to form a perceived quality of streaming data score, the recreated data packets including the any missing known data packets and the data stream of data packets; and

sending, from the device, send the perceived quality of streaming data score to a third party for evaluation purposes.

23. (original) The medium of claim 22, wherein the rendered data buffer delays the stored data packets until the missing known data packets are integrated into the data packets stored at the original data buffer.

24. (original) The medium of claim 22, wherein the third party evaluates the perceived quality of streaming data score to track the Service Level Agreements at the stream receiver.

25. (currently amended) The medium of claim 22, including instructions which when executed cause the computing device to transmission transmit [[of]] the perceived quality of streaming data score to an analyzer for evaluation of bandwidth to provide acceptable quality of service at the stream receiver.

Claims 26 – 28 (cancelled).

29. (currently amended) ~~The method of claim 28, the method further including:~~

A method, comprising:

receiving, at a stream receiver, a data stream of data packets, from a stream sender via a network connection;

analyzing, at the stream receiver, the data stream of data packets by comparing the received data stream of data packets to a known arrangement of packets to determine if there are any missing packets in the data stream of data packets;

storing the received data stream of data packets into both an original data buffer and a rendered data buffer;

requesting the stream sender to retransmit the missing known data packets not received at the stream receiver;

receiving the requested missing known data packets from the stream sender at the stream receiver;

comparing [[the]] recreated data stream of data packets stored in the original data buffer to the data stream of data packets stored at the rendered data buffer to generate a perceived quality of streaming data score, the recreated data steam of data packets including the missing known data packets; and

sending the perceived quality of streaming data score to a third party for evaluation purposes.

30. (currently amended) The method of claim 29, ~~wherein the device sends further including sending~~ the perceived quality of streaming data score to an analyzer for evaluation of bandwidth between the stream sender and the stream receiver.

31. (new) The method of claim 29, wherein the rendered data buffer delays the stored data packets until the missing known data packets are integrated into the data packets stored at the original data buffer.

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